

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	19	(US-5468947-\$ or US-5166932-\$ or US-4857716-\$ or US-4817135-\$ or US-4902883-\$ or US-5065003-\$ or US-4942356-\$ or US-6149062-\$ or US-6895419-\$ or US-5410141-\$ or US-5241488-\$ or US-5166693-\$ or US-5302947-\$ or US-5043721-\$ or US-5218188-\$ or US-5216233-\$). did. or (US-3247514-\$).did. or (US-5608606-\$ or WO-8702847-\$). did.	USPAT; USOCR; DERWENT	OR	OFF	2007/06/27 12:06
S2	8074272	@ad<="19900607"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 13:01
S3	40	US-4247908-\$.DID. OR US-4528442-\$.DID. OR US-4528443-\$.DID. OR US-4621189-\$.DID. OR US-4686690-\$.DID. OR US-4701745-\$.DID. OR US-4706096-\$.DID. OR US-4718110-\$.DID. OR US-4817115-\$.DID. OR US-4857716-\$.DID. OR US-4890832-\$.DID. OR US-4902883-\$.DID. OR US-4942356-\$.DID. OR US-4967188-\$.DID. OR US-5043721-\$.DID. OR US-5075792-\$.DID. OR US-5218187-\$.DID. OR US-5227614-\$.DID. OR US-5410141-\$.DID. OR US-5515303-\$.DID.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 13:11
S4	1	10/646318	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:13
S12	8	("5166693" "3964296" "3247514"). pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 15:56

## EAST Search History

S15	34819	"343"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:05
S19	414602	antenna	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:12
S20	797023	connector	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:13
S21	1786208	mobile portable wireless rf	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:14
S22	1359943	module embed\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:15
S23	382	S19 and S20 and S21 and S22 and S2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/27 16:16
S24	47	("4602253"   "4680583"   "4689619").PN. OR ("5025486").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/27 17:02
S25	1332	antenna same (mobile cellular) and S2	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/27 17:03
S26	1282	antenna same (mobile cellular) and S2 not S23	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/27 17:03
S27	366	S26 and ("235"/\$.ccls. "343"/\$.ccls. )	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/27 17:05

## EAST Search History

S28	30	("3665310"   "4061971"   "4085366"   "4255730"   "4661992"   "4673861"   "4914714").PN. OR ("5121504").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/27 17:07
S29	29	("4806906"   "4807292"   "5043721"   "5121504"   "5241542"   "5418524").PN. OR ("5559501").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/06/27 17:18
S30	1736248	@ad<="19920107"	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/05 11:16
S31	299339	antenna transceiver	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:16
S32	14825	second adj S31	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:16
S33	1741694	3and S30	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:17
S34	1432	S32 and S30	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:17
S35	84877	"235"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:17
S36	139046	"340"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:06
S37	78630	"379"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:18
S38	13	S34 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:07
S39	185	S34 and S36	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:27
S40	10186	(scanner reader) same (transponder rfid)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:28
S41	10	S40 and S30 and S35	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:28
S42	82	("3938044"   "4141078"   "4498076"   "4567473"   "4728938"   "4881061").PN. OR ("5059951").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:47

## EAST Search History

S43	744	(cargin.in. mahany.in. kelly.in. koenck.in.) and antenna\$1	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:48
S44	99	(cargin.in. mahany.in. kelly.in. koenck.in.) and antenna\$1 and @ad<199506\08	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:49
S45	0	(cargin.in. mahany.in. kelly.in. koenck.in.) and antenna\$1 and @ad<"199506"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:49
S46	99	(cargin.in. mahany.in. kelly.in. koenck.in.) and antenna\$1 and @ad<"19950608"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 11:50
S47	29	(cargin.in. mahany.in. kelly.in. koenck.in.) and antenna\$1.clm. and @ad<"19950608"	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 13:46
S48	1	(cargin.in. mahany.in. kelly.in. koenck.in.) and flat near antenna\$1.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:12
S49	2	(cargin.in. mahany.in. kelly.in. koenck.in.) and standardiz\$4 near logic.clm.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 12:13
S50	1361	flat near antenna	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 13:47
S51	3	flat adj antenna and (cargin.in. mahany.in. kelly.in. koenck.in. hanson.in. shultz.in. durbia.in. miller.in. danielson.in.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 13:49
S52	3	flat adj antenna and (cargin.in. mahany.in. kelly.in. koenck.in. hanson.in. shultz.in. durbia.in. miller.in. danielson.in. boatwright.in. gibbs.in. geers.in.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 10:45
S53	2	"4718110".pn. and (antenna connect\$4)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 14:05
S54	582613	scanner reader	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 14:45

## EAST Search History

S55	200058	(antenna rf radio) near30 (unit cap connector module)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 14:46
S56	8074272	@ad<="19900607"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/05 14:46
S57	720	S55 and S54 and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 14:47
S58	56	S57 and "235"/\$.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 14:55
S59	2	"5227614".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 17:24
S60	76	("4396985"   "4530067"   "4553222"   "4569421"   "4638312").PN. OR ("5003472").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:20
S61	966	digital and 235/472.\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:20
S62	30	("3665310"   "4061971"   "4085366"   "4255730"   "4661992"   "4673861"   "4914714").PN. OR ("5121504").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/05 15:21
S63	0	S61 and S62	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:21

## EAST Search History

S64	65	S61 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:21
S65	14	S61 and S56 and (rf radio wireless antenna)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:33
S66	319	S37 and S56 and digital same phone	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:34
S67	7	S37 and S56 and digital same phone same (portable handheld)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:44
S68	794	pen and 235/462\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:44
S69	147	S68 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:53
S70	5	remov\$4 near pen and S35 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 15:57
S71	8	connector with pen and S35 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 16:02
S72	1	"4983818".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 16:02
S73	84	("4133034"   "4158194"   "4387297"   "4409470"   "4460120"   "4575625"   "4607156"   "4621189"   "4706248"   "4825057").PN. OR ("4983818").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 16:02
S74	2	"5003472".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 16:20
S75	2	"4983818".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 16:57

## EAST Search History

S76	0	08/478488	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 17:25
S77	0	08/478488	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 17:26
S78	1	08/360014	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 17:29
S79	24	07/451322	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/05 17:29
S80	48909	"382"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:06
S81	48	antenna and S56 and S80	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:21
S82	274	antenna near10 embed\$5 and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:23
S83	38	antenna near10 embed\$5 and S56 and (reader scan\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:38
S84	462	(rf uhf) adj antenna and S56	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:40
S85	41	(rf uhf) adj antenna and S56 and (S35 S36 S37 S80)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:47
S86	1	"5014346".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:47

## EAST Search History

S87	87	("3049711"   "4001830"   "4121218"   "4313119"   "4471493"   "4571595"   "4644366"   "4740794"   "4816838"   "4845772").PN. OR ("5014346").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/05 18:58
S88	26	S87 and digital	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 15:56
S89	20	(auto automatic automatically) near off near30 module and S56	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:37
S90	8074272	@ad<="19900607"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/07/06 10:37
S91	30	(activity inactivity operation non\$2operation) near off near30 module and S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:49
S92	263	(non\$3operation inactivit\$3) and (cargin.in. mahany.in. kelly.in. koenck.in. hanson.in. shultz.in. durbia.in. miller.in. danielson.in. boatwright.in. gibbs.in. geers.in.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 10:46
S93	27	(non\$3operation inactivit\$3).clm. and (cargin.in. mahany.in. kelly.in. koenck.in. hanson.in. shultz.in. durbia.in. miller.in. danielson.in. boatwright.in. gibbs.in. geers.in.)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 10:46
S94	580	(activity inactivit\$3 non\$2operation) same (scanner reader) and S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 10:51

## EAST Search History

S95	15	(non\$3activity inactivit\$3 non\$2operation) same (scanner reader) and S90	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 13:29
S96	63	zouzoulas.in. frontino.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 13:30
S97	2	"5003472".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/07/06 15:24
S10 0	1	"5608606".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 15:56
S10 1	57	("4545023"   "4894792"   "5103378"   "5139439"   "5190461"   "5299089"   "5375037"   "5440449").PN. OR ("5608606"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 15:57
S10 2	0	antenna same pcmcia and S90	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 15:58
S10 3	570	antenna with module and S90	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 15:58
S10 4	164963	antenna with module and S90 amd "340"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:00
S10 5	89	antenna with module and S90 and "340"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:03
S10 6	7	antenna with module and S90 and "235"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:08
S10 7	0	antenna with module and S90 and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:07

## EAST Search History

S10 8	3	(rf antenna radio) with module and S90 and "382"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:23
S10 9	16	(rf radio antenna) with module and S90 and "235"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:32
S11 0	5	("4850009" "4418277" "4793812" "4773032" "4842966").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:23
S11 1	82	("3826900").PN. OR ("4418277").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:31
S11 2	0	"364"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:31
S11 3	195	(rf radio antenna) with module and S90 and "340"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:38
S11 4	571	235/486.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/06 16:38
S11 5	1	235/486.ccls. and hybrid and S90	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/07 09:44